

## WEB PROGRAMMING LAB

- 8. a. Develop a PHP program (with HTML/CSS) to keep track of the number of visitors visiting the web page and to display this count of visitors, with relevant headings.**
- b. Develop a PHP program (with HTML/CSS) to sort the student records which are stored in the database using selection sort.**

### **Expt8a.php**

```
<?php
// File to store the visitor count
$counterFile = "count.txt";

// Check if the file exists, if not, create it and initialize the
count to 0
if (!file_exists($counterFile)) {
    file_put_contents($counterFile, 0);
}

// Read the current count from the file
$visitorCount = (int)file_get_contents($counterFile);

// Increment the count for each page visit
$visitorCount++;

// Write the updated count back to the file
file_put_contents($counterFile, $visitorCount);
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Visitor Counter</title>
</head>
<body>
    <h1>Welcome to Our Website!</h1>
```

```
<p>
    <?php echo "Number of visitors: " . $visitorCount; ?>
</p>
</body>
</html>
```

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## Welcome to Our Website!

Number of visitors: 9

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Student Records - Selection Sort</title>
    <link rel="stylesheet" href="style8b.css">
</head>
<body>
    <div class="container">
        <h1>Sorted Student Records</h1>
        <?php
            // Database connection
            $servername = "localhost";
            $username = "root";
            $password = "";
            $dbname = "college";

            // Create connection
            $conn = new mysqli($servername, $username, $password, $dbname);

            // Check connection
            if ($conn->connect_error) {
                die("Connection failed: " . $conn->connect_error);
            }

            // Fetch student records
            $sql = "SELECT * FROM students";
            $result = $conn->query($sql);

            $students = array(); // Initialize the array

            if ($result->num_rows > 0) {
                // Store data into an array
                while ($row = $result->fetch_assoc()) {
                    $students[] = $row;
                }

                // Selection Sort algorithm to sort students by grade
```

```

        $n = count($students);
        for ($i = 0; $i < $n - 1; $i++) {
            $min_idx = $i;
            for ($j = $i + 1; $j < $n; $j++) {
                if ($students[$j]['id'] < $students[$min_idx]['id']) {
                    $min_idx = $j;
                }
            }
            // Swap the found minimum element with the first element
            $temp = $students[$min_idx];
            $students[$min_idx] = $students[$i];
            $students[$i] = $temp;
        }
    } else {
        echo "<p>No student records found.</p>";
    }

    // Display the sorted students
    if (!empty($students)) {
        echo "<table>";
        echo "<tr><th>ID</th><th>Name</th><th>Grade</th></tr>";
        foreach ($students as $student) {
            echo
"<tr><td>{$student['id']}</td><td>{$student['Name']}</td><td>{$student['
Grade']}</td></tr>";
        }
        echo "</table>";
    }

    // Close connection
    $conn->close();
    ?>
</div>
</body>
</html>

```

**style8b.css**

```
* {  
  margin: 0;  
  padding: 0;  
  box-sizing: border-box;  
}  
  
body {  
  font-family: Arial, sans-serif;  
  background-color: #f4f4f4;  
  display: flex;  
  justify-content: center;  
  align-items: center;  
  height: 100vh;  
}  
  
.container {  
  background-color: white;  
  padding: 20px;  
  border-radius: 8px;  
  box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);  
  width: 600px;  
  text-align: center;  
}  
  
h1 {  
  margin-bottom: 20px;  
}  
  
table {  
  width: 100%;  
  border-collapse: collapse;  
}  
  
th, td {  
  padding: 10px;  
  border: 1px solid #ddd;  
  text-align: center;
```

```
}

th {
    background-color: #f2f2f2;
}

tr:nth-child(even) {
    background-color: #f9f9f9;
}
```

### **students.sql**

**Database: `college`**

```
CREATE TABLE `students` (
  `id` int(11) NOT NULL,
  `Name` varchar(100) NOT NULL,
  `Grade` int(10) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_general_ci;

-- Dumping data for table `students`
INSERT INTO `students` (`id`, `Name`, `Grade`) VALUES
(1, 'Alice', 85),
(2, 'Bob', 82),
(3, 'Jhon', 92),
(4, 'Mary', 55),
(5, 'Sita', 98);
```

# Sorted Student Records

ID	Name	Grade
1	Alice	85
2	Bob	82
3	Jhon	92
4	Mary	55
5	Sita	98